Notebook, N-12-03-15.2

			50	1/2	H	100	1/2	H
Goldstein 573 Dried in Covered dishes	5003	1227	1377	1393	543	1433	1457	770
1/4" hole 237 27.2" 7317 7360 no dust 14 days in heater	5004	1217	1363	1383	573	1423	1453	780
Goldstein 574 Dried in Covered dishes	5005	1197	1327	1343	527	1357	1433	747
Dup of 5003 253 27.4 7858 7890	5006	1217	1383	1400	527	1500	1533	800
Goldstein 583 6236	5007	1110	1187	1193	470	1273	1297	750
193 6232 bulky	5008	1113	1250	1280	513	1300	1330	690
Goldstein 586 7323 1% Cobalt	5009	1200	1400	1420	523	1460	1483	593
240 7353	5010	1280	1393	1410	503	1443	1430	557
Goldstein 587 267.4 1% Cobalt	5011	1200	1400	1420	567	1453	1487	650
238 7591 7625	5012	1193	1397	1410	733	1487	1517	760
854 mixed with Anhy Bismuth Ox thru 100 on 19g.	5013	1107	1333	1490	957			
21K 2 Li 2 Zirconate Soda 264 7932 7911	5014	1113	1243	1493	930			
Dup 5013	5015	827	633	1517	930			
Except 21K 2 Li 2 Titanate Soda 265D	5016	1150	783	1483	897			
Goldstein 591 4% $Bi(OH)_3$	5017	1260	1483	1490	983	1547	1593	970
4 27.2 212N 6598 6708	5018	1287	1490	1500	1027	1560	1597	633
Goldstein 600 $Ni(OH)_2$ from	5019	1000	813	830	403			
$NiCl_2$ 41f-4-27 212 6629 6604	5020	1000	1000	1020	460			

Ni [illegible]
Loading [illegible]

	150			200	1/2	H	250	1/2	H	10 cold 300	1/2	H
5003	1437	1477	573	1493	1567	610	1583	1547	820	1547	1600	810
5004	1430	1467	590	1477	1567	687	1507	1550	850	1527	1590	817
5005	1397	1447	550	1487	1540	657	1523	1587	860	1580	1637	816
5006	1490	1533	627	1600	1667	757	1610	1647	877	1620	1657	847
5007	1257	1317	627									
5008	1280	1317	643									
5009	1433	1483	623	1513	1577	677	1610	1667	900	1527	1600	723
5010	1423	1467	550	1510	1567	677	1577	1683	813	1517	1580	750
5011	1447	1497	573	1573	1633	707				1613	1680	807
5012	1500	1537	597	1577	1617	650				1590	1647	717
5017	1550	1600	1083	1467	1567	1010	1533	1580	1037	1457	1510	973
5018	1570	1617	1190	1467	1570	1020	1520	1573	987	1453	1503	927
Cont 699												
5017	1177	1290	963									
5019	1130	1253	897									

Water loss Loading 10#

Cold room

burst 4 places

Pocket 1 place
Opening broken

	350	½	H.	400		
5003 5004	1500 1483	1577 1580		1277 1200	1473 1443	583 583
5005 5006	1550 1530	1613 1600		1323 1357x	1503 1477	633 633
5007 5008	[illegible] [illegible]	1580 [illegible]				
5009 5010	1483 1450	1580 1533		1327 1353	1550 1520	633 633
5011 5012	1580 1533	1650 1620		1467x 1450x	1637 1593	717 717
	5003 5004	600 973x 930	1140 1097	793 783		
	5005 5006	1213 858x	1357 967	907 827		
5017 5018	1477 1423	1573 1503	1137 977	700 1117 1097	1197 1187	787 783
5017 5018	550 1130 1090	1267 1277	1050 987	1070 1133	1233 1277	863 990

Split 2 places [illegible]

Next Page

6 caldron melted 8

450	½	H	500	½	H.			
1393 1347	1547 1543		1267 1267	1500 1477	763 767			
1483 1417	1587 1563		1323 1150	1547 1390	743 760	split 2 places 3		
550 950 1000	1097 1220	753 770						
1523 1417	1610 1557		1380 1333	1627 1583	740 717	550 1060 1067	1353 1350	753 710
1567x 1543x	1667 1633		1527 1423	1690 1633	720 770	1093 1197	1383 1407	763 783
550 1153 927	1373 1113	873 867	5009-10 1170 1110	1127 1123				
			5011-12 1183 1263 500	1130 1250				
450 1380 1377	1477 1487	977 1000	1373 1390	1453 1470	970 993	see below		

								650	1/2	H
[illegible] 396- 41f 4-26.7 [illegible] 264 D	7974 7912	5021 5022	1133 1150	1260 1260	1273 1277	397 380	5003 5004	843 920	990 1040	417 400
[illegible] 398 255 4 27.3	7979 7888	5023 5024	1220 1233	1293 1303	1307 1317	380 387	5005 5006	1113 727	Split swollen 1210 797	957 765
[illegible] 402 - 4 27.3 237	7626 7590	5025 5026	1207 1227	1297 1280	1317 1297	383 383				
[illegible] 403 250 4-27	7549 7681	5027 5028	1200 1220	1307 1257	1317 1273	417 397				
[illegible] 404 4 27.1 252	7815 7786	5029 5030	1217 1200	1327 1320	1340 1330	403 400				
[illegible] 405 253	7913 7993	5031 5032	1180 1180	1300 1303	1307 1317	400 467				
[illegible] 406 4 27.2 241 D	7456 7417	5033 5034	1207 1190	1303 1320	1317 1330	473 483				
[illegible] 410 242 4-27	7649 7685	5035 5036	1180 1177	1293 1310	1303 1320	390 427				
[illegible] 411 240	7472 7501	5037 5038	1123 1140	1310 1317	1323 1333	440 443				

Phenomenal Record
1707 mah after 450 Run
low load cut

Golden 412 4 27.3	230 D	7143 7210	5039 5040	1127 1133	1287 1293	1297 1300	423 390			
Golden 413 4 27	239 D	7386 7361	5041 5042	1177 1183	1300 1317	1310 1330	403 393			
Golden 416 4 26.8	257	7850 7994	5043 5044	1180 1177	1313 1300	1320 1310	420 447			
Golden 418	244	7572 7487	5045 5046	1127 1150	1333 1320	1350 1330	407 387			
Golden 420	255 D	7865 7886	5047 5048	1133 1140	1320 1330	1330 1333	387 360			
Golden 421	250	7737 7706	5049 5050	1130 1139	1287 1280	1297 1287	337 340			
Golden 568 4/27	254 D	7795 7846	5051 5052	1243 1237	1307 1313	1323 1330	433 463			
Golden 4 27	193 D	6105 6137	5053 5054	1067 1090	1120 1177	1133 1187	537 580			
Golden 595 4 27.1	238 D ½% Burnish	7329 7405	5055 5054	1250 1253	1547 1567	1557 1577	1047 1053	1683 1680	1723 1700	1007 937

5055	1703	1720	1200	1640	1710	1023	1613	1630	880	1660	1683	1157
5056	1690	1707	1223	1683	1733	1020	1580	1593	917	1637	1660	967

	900		
5055	1157	1287	950
5056	1177	1313	937

	950		
5055	1273	1407	923
5056	1317	1420	957

	1000	½	H	1050	½	H.
5055	1117	1267	1100	1063	1063	1070
5056	1183	1317	1027	1123	1220	1067
	1100			1150		
5055	940	1007	1013	867	1133	950
5056	977	1090	1070	1010	1107	1017
	1200			1240 To Run Cold		
5055	850	1000	967	750	860	807
5056	1000	1067	987	833	923	897

	650			700	½	1T	750			800	½	1T
5055	1267	1390	1247	1273	1417	997	1400	1517	1193	1350	1477	1067
56	1493	1567	1248	1373	1500	1070	1443	1562	1267	1350	1473	1077

	350			400			450			500 .9	½	H.	600 .9		
5055	1607	1633	1077	1590	1650	860	1667	1707	1170	1577	1650	1210	1360	1460	1183
5056	1630	1650	1113	1613	1667	860	1707	1743	1250	1617	1677	1210	1377	1487	1153

[illegible] 576 + 5% Bi [illegible] 41f 4 273 226	6976 7037	5057 5058	1240 1227	1490 1460	1517 1480	937 980	1547 1527	1583 1573	953 950	
[illegible] 605 239	7251 7343	5059 5060	1200 1177	1250 1267	1267 1277	430 397				
[illegible] 422 256 N	7819 7835	5061 5062	1157 1173	1283 1297	1300 1310	527 450				
[illegible] 603 NiOH was all fine ground at [illegible] button, then ground + screened 230 N	6987 6962	5063 5064	1077 1100	1190 1207	1200 1217	400 457				
[illegible] 483 197-B2 f 001 gram 007 Dump 7 grams then 1 f [illegible] 240 N	1/8 Tube Bismuth 1964 1989 2081 2010	5065	1577	1617	1630	1270	1743	1753	1243	
[illegible] 423 225 N	7104 7083	5066 5067	1223 1220	1293 1267	1327 1293	463 433				
[illegible] 425 263 N	7986 7997	5068 5069	1163 1143	1287 1380	1317 1393	400 377				
[illegible] 426 226 N	7192 7170	5070 5071	1107 1170	1260 1257	1310 1297		1397 1390	1433 1423	467 447	
[illegible] 427 261 N	7871 7800	5072 5073	1050 1057				1240 1393	1260 1480	357 447	

5057	1547	1610	1010	1487	1573	1047	1487	1523	1040	1490	1557	1020
5059	1527	1593	977	1483	1567	957	1480	1530	967	1507	1560	1023

5065	1860	1877	1280	1427	1467	[illegible]	10

5057	1490	1540	1047
5059	1463	1523	982

							100	½	14
[illegible] 428 240	7413 7383	5074 5075	1210 1213	1313 1327	1333 1353	493 497	1393 1420	1420 1447	590 587
[illegible] 429 242 A	7848 7898	5076 5077	1187 1190	1327 1420	1390 1437	460 407	1357 1467	1380 1493	513 513
RA 1341 Reg 269	7580 7581	5078 5079	1180 1177	1270 1260	1283 1273	423 410			
RA 1342 Reg	7726 7700	5080 5081	1160 967	1280 1243	1293 1260	417 337			
1343 271	7578 7595	5082 5083	1113 1150	1200 1243	1220 1260	457 453			
1344 269	7530 7615	5084 5085	1120 1117	1250 1267	1263 1257	460 430			
1345 265	7629 7549	5086 5087	1127 1100	1250 1193	1263 1200	400 357			
1346 269	7485 7500	5088 5089	1113 1100	1197 1200	1203 1220	467 504			
Lot 50 Uniflake 1256 ui	23.8 4.3 7493 7360	5090 5091	1243 1220	1347 1287	1360 1303	563 593			

~~5074~~	~~1373~~	~~1390~~	~~593~~
~~5075~~	~~1377~~	~~1397~~	~~567~~
~~5076~~	~~1377~~	~~1370~~	~~587~~
~~5077~~	~~1467~~	~~1490~~	~~547~~

1390 (1164 series) Expt 256 7941 7974	5092 5093	1130 1133	~~1313~~ ~~1357~~	~~1357~~ ~~1377~~	~~470~~ ~~440~~	~~0~~		
Qoldsln 567. **Sides** — 245 7655 7616	5094 5095	1177 1197	~~1313~~ ~~1337~~	~~1327~~ ~~1357~~	~~447~~ ~~443~~	~~1397~~ ~~1420~~	~~1430~~ ~~1443~~	~~570~~ ~~570~~
Qoldsln 567 **Middle** 252 7657 7665	5096 5097	1183 1193	~~1357~~ ~~1330~~	~~1380~~ ~~1357~~	~~470~~ ~~473~~	~~1443~~ ~~1490~~	~~1467~~ ~~1430~~	~~583~~ ~~560~~
Qoldsln 612 H_2SO_4 replaced by Fe_2Cl_6 — 200 5656 5635	5098 5099	167 163	~~130~~ ~~147~~	~~133~~ ~~150~~	~~210~~ ~~217~~	~~0~~		
Qoldsln 615 H_2SO_4 replaced by $SrCl_2$ 206 6250 6218	5100 5101	1180 1170	~~1197~~ ~~1247~~	~~1207~~ ~~1263~~	~~523~~ ~~500~~	~~1~~		
Qoldsln 616 H_2SO_4 replaced by $NaCl$ — 193 6010 5890	5102 5103	1077 1013	~~1127~~ ~~990~~	~~1153~~ ~~997~~	~~450~~ ~~403~~	~~0~~		
Qoldsln 617 H_2SO_4 replaced by NH_4Cl. 193 6039 6023	5104 5105	793 800	~~993~~ ~~990~~	~~1010~~ ~~1000~~	~~340~~ ~~293~~	~~1~~		
Qoldsln 618 H_2SO_4 replaced by KCl — 206 6407 6411	5106 5107	1150 1167	~~1170~~ ~~1020~~	~~1200~~ ~~1040~~	~~477~~ ~~427~~	~~0~~		
Qoldsln 593 10% $Bi(OH)_3$ 238 7263 7292	5108 5109	1260 1260	~~1503~~ ~~1457~~	~~1523~~ ~~1477~~	~~1087~~ ~~1183~~	~~1553~~ ~~1600~~	~~1693~~ ~~1667~~	~~910~~ ~~1050~~

5094	1387	1413	610							
5095	1393	1433	597							
5096	1440	1463	660							
5097	1377	1390	563							
5108	1620	1750	1110	1490	1713	1083		1423	1580	1147
5109	1597	1677	1260	1493	1687	1087		1490	1577	1147

							100	½	H
Golden 594 223	15% $Bi(OH)_3$ 7247 7232	5110 5111	1233 1230	1540 1500	1553 1510	1040 1040	1600 1630	1723 1727	963 980
Golden 597 232	7½% $Bi(OH)_3$ 6958 6936	5112 5113	1247 1240	1537 1523	1583 1573	1003 967	1497 1507	1620 1627	993 980
Golden 598 257	10% $Bi(OH)_3$ 7861 7911	5114 5115	1267 1250	1557 1527	1620 1550	1033 1083	1627 1633	1730 1767	943 990
Golden 599 240	12½% $Bi(OH)_3$ 7339 7342	5116 5117	1243 1230	1533 1533	1557 1557	1080 1083	1633 1653	1770 1757	967 977
Golden 621 244	12½% $Bi(OH)_3$ 7587 7552	5118 5119	1257 1243	1600 1573	1650 1600	1020 1037	1693 1690	1797 1793	930 913
Golden 575 dried in Covered pan 41f 4, 27.2 256	7872 7844	5120 5121	1183 1180	1297 1267	1310 1280	457 487			
Golden 581 198	5995 6023	5122 5123	1067 1067	1047 1053	1080 1087	490 487			
Golden 592 201	6412 6382	5124 5125	1253 1250	1460 1463	1493 1500	993 1010	1463 1467	1550 1543	830 813
RA 1330 Expt 231	7028 7068	5126 5127	1210 1187	1300 1283	1317 1297	593 557			

	150	'/n	H							
5110	1657	1697	1110	1593	1710	1110	~~1490~~	~~1570~~	~~1137~~	✓
5111	1660	1687	1073	1593	1730	1067	~~1487~~	~~1573~~	~~1150~~	
5112	1533	1643	1030	1480	1593	440	~~1483~~	~~1557~~	~~1050~~	✓
5113	1483	1600	1030	1440	1593	983	~~1477~~	~~1537~~	~~1053~~	
5114	1650	1730	1157	1577	1687	1113	~~1487~~	~~1543~~	~~1170~~	✓
5115	1650	1753	1150	1577	1720	1063	~~1550~~	~~1630~~	~~1130~~	
5116	1683	1797	1083	1577	1730	1033	~~1527~~	~~1597~~	~~1167~~	✓
5117	1710	1730	1173	1490	1713	1117	~~1520~~	~~1610~~	~~1153~~	
5118	1717	1743	1127	1600	1713	1160	~~1500~~	~~1567~~	~~1160~~	✓
5119	1717	1770	1143	1600	1720	1150	~~1513~~	~~1590~~	~~1153~~	

Hereafter all Ra Reg put up
4 f 27. one Tramp — (10) [illegible]

Ra 1331 Expt. 233	7200 7240	5128 5129	1180 1193	~~1300~~ ~~1323~~	~~1317~~ ~~1333~~	~~490~~ ~~453~~	
Ra 1332 Expt 232	7051 7078	5130 5131	1150 1153	~~1260~~ ~~1257~~	~~1270~~ ~~1267~~	~~533~~ ~~553~~	
Ra 1333 229	7.155 7134	5132 5133	1197 1197	~~1320~~ ~~1330~~	~~1333~~ ~~1333~~	~~590~~ ~~590~~	
1334 232	7124 7120	5134 5135	1183 1183	~~1260~~ ~~1300~~	~~1273~~ ~~1313~~	~~553~~ ~~520~~	
1335 235	7130 7144	5136 5137	1220 1207	~~1347~~ ~~1323~~	~~1360~~ ~~1333~~	~~510~~ ~~493~~	
1336 237	7154 7182	5138 5139	1193 1223	~~1303~~ ~~1330~~	~~1317~~ ~~1347~~	~~533~~ ~~587~~	
Ra 1337 Expt. 231	7054 7099	5140 5141	1223 1240	~~1330~~ ~~1290~~	~~1347~~ ~~1313~~	~~597~~ ~~600~~	
Ra 1338 Expt. 228	7117 7193	5142 5143	1193 1217	~~1287~~ ~~1287~~	~~1310~~ ~~1310~~	~~587~~ ~~547~~	
Ra 1339 Expt 240	7323 7397	5144 5145	1220 1243	~~1333~~ ~~1340~~	~~1347~~ ~~1353~~	~~523~~ ~~497~~	

Ra 1340 Expt	238	7251 7228	5146 5147	1217 1233	1307 1327	1320 1343	523 543			
Ra 1341 Expt	231	7361 7355	5148 5149	1267 1247	1357 1350	1387 1363	560 570			
Ra 1342 Expt	233	7102 7168	5150 5151	1207 1200	1290 1303	1303 1320	577 603			
Ra 1343 Expt	238	7375 7383	5152 5153	1223 1223	1343 1330	1357 1343	650 597			
Ra 1344 Expt	231	7170 7154	5154 5155	1213 1213	1327 1353	1340 1377	590 633	1387 1393	1400 1427	567 587
Ra 1345 Expt	235	7125 7110	5156 5157	1257 1240	1300 1330	1320 1347	497 653			
Ra 1346 Expt	227	7098 7060	5158 5159	1197 1197	1323 1317	1333 1323	553 537	1373 1370	1413 1417	577 610
Ra 1347 Expt	230	7078 7074	5160 5161	1197 1197	1317 1323	1323 1333	460 493			
Ra 1348 Expt	236	7140 7111	5162 5163	1213 1227	1323 1323	1333 1330	450 477	1367 1390	1410 1427	523 557

5154	1393	1443	840
5155	1400	1450	833

Ra 1349 Expt 225	7060 7036	5164 5165	1213 1223	1327 1333	1333 1340	463 473			
Ra 1350 Expt 229	7087 7113	5166 5167	1173 1197	1317 1323	1327 1333	483 503			
Ra Expt 1351 234	7034 7145	5168 5169	1193 1213	1317 1350	1327 1360	500 477			
Ra 1352 Expt 232	7213 7160	5170 5171	1240 1227	1360 1327	1373 1333	470 397	1420 1390	1450 1423	557 580
Ra 1353 Expt 236	7052 7045	5172 5173	1230 1217	1333 1327	1343 1333	390 393			
Ra 1354 Expt 227	7052 7085	5174 5175	1210 1210	1327 1323	1343 1330	480 440			
Ra 1355 Expt 229	7006 7016	5176 5177	1197 1167	1323 1320	1330 1327	447 430			
Ra 1356 Expt 230	7028 7126	5178 5179	1170 1193	1283 1320	1317 1327	423 417			
Ra 1357 Expt 234	7045 7084	5180 5181	1223 1233	1317 1367	1323 1380	413 393	1380 1430	1427 1467	617 670

Ra 1358 Expt 231 7212 7218	5182 5183	1193 1193	1317 1313	1327 1323	400 403	|||		
Ra 1359 Expt 7039 237 7053	5184 5185	1217 1227	1317 1317	1327 1323	467 547	||		
Ra 1360 Expt	5186 5187	1200 1193	1300 1303	1317 1320	550 600	|		
[illegible] 621 12½% $Bi(OH)_3$ fl41- 4 - 27.2 21K 3 LiOH 7748 247 7730	5188 5189	1307 1330	1700 1717	1730 1763	930 930	1733 1783	1860 1900	647 643
Dup 5188 21K 4 LiOH	5190 5191	1360 1373	1677 1700	1713 1733	1063 957	1720 1753	1847 1893	683 657
Dup 5188 21K 5 LiOH	5192 5193	1440 1430	1527 1527	1557 1553	1040 1027	1720 1767	1790 1903	677 633
Dup 5188 21K 6 LiOH	5194 5195	1457 1443	1390 1377	1417 1413	1067 1063	|		
Dup 5188 21K 7 LiOH.	5196 5197	1463 1477	1283 1413	1320 1517	1083 1077	||		
Dup 5188 21K 8 LiOH.	5198 5199	1500 1633	843 983	867 1030	850 894	|		

200 ½ π

Slight accent

300 ½ Bad Gent · π

5188	1667	1833	1063	1753	1917	1023	1677	1773	977	1617	1720	1067
5189	1643	1853	967	1657	1880	1013	1623 ×	1763	970	1593 ×	1730	1023
5190	1633	1833	1030	1653	1867	1103	1527	1713	960			
5191	1577	1717	1147	1600	1857	1073	1457	1657	990			
5192	1573	1663	1023	1600	1780	1100	1380	1553	993			
5193	1613	1710	1157	1597	1760	1067	1380	1500	997			

5188	1360	1580	1083
5189	1317	1517	1173 ×

Bent badly

Dep 5189	5200	1520	~~933~~	~~1000~~	~~850~~						
21K Saturated LiOH.	5201	1507	~~817~~	~~850~~	~~857~~						
Dep 5189	5202	1407	~~550~~	~~587~~	~~840~~						
16% K Saturated LiOH.	5203	1410	~~733~~	~~783~~	~~767~~						
Dep 5189	5204	1267	~~457~~	~~560~~	~~833~~						
12% KOH Saturated LiOH.	5205	1287	~~200~~	~~230~~	~~547~~						
Dep 5189	5206	1187	~~743~~	~~867~~	~~870~~						
8% KOH, Saturated LiOH.	5207	1143	~~723~~	~~257~~	~~577~~						
1/8 Tubes 1256 green 4 tubes to	5208	1477	~~1427~~	~~1453~~	~~510~~	1387	1483	500	1300	1467	597
grid—	5209	1347	~~1333~~	~~1353~~	~~507~~	1273.	1317	470	1260	1407	527

	265	2029
	270	2043
Dump green Leaf	271	2016
then tamp—	262	2041
192 Bzf 001	256	1893
green 007	254	1852
	265	2026
	254	1827

Reg tamp 14¼ oz—

5208	1303	1467	660	1
5209	1250	1400	657	

1/8 Tubes Dup 5208 Except Weight of Tamp 25% more.	280 281 283 293 290 281 277 281	2061 2061 2061 2152 2100 2077 2141 2149	5210 5211	1530. 1597	1500 1507	1520 1530	567 603	1390 1420	1527 1500	499 500
1/8 Tubes Dup 5208 Except weight tamp 50% more Tamp tends every tube constant make 75% Ex wt. lamp check,	291 299 292 292 281 282 288 292	2112 2152 2091 2120 2080 2099 2087 2068	5212 5213	1593 1560	1483 1467	1523 1500	647 583	1353 1350	1483 1453	547 547
1347 Reg	270	7642 7638	5214 5215	1073 1077	1233 1183	1243 1190	647 530			
1348 Reg	275	7726 7814	5216 5217	1110 1077	1173 1177	1180 1183	527 527			
1349 Reg	270	7786 7822	5218 5219	1110 1107	1173 1170	1180 1233	527 637			

~~5210~~	~~1433~~	~~1527~~	~~540~~	~~1333~~	~~1530~~	~~613~~	1
~~5211~~	~~1443~~	~~1527~~	~~560~~	~~1400~~	~~1530~~	~~617~~	
~~5212~~	~~1317~~	~~1467~~	~~567~~	~~1267~~	~~1447~~	~~643~~	P
~~5213~~	~~1317~~	~~1433~~	~~573~~	~~1267~~	~~1400~~	~~633~~	

Looks as if Fe went 600

2)2733
1366
4
6
6
13
4
16
0
54
0
560
5

1366
56 96
192

Lot 52 flake 24-404		1256 meas. 7516 7530	5220 5221	1190 1217	1260 1277	1277 1297	677 650	1230 1233	1280 1307	623 644
Ra 1327 Expt	241	7417 7470	5222 5223	1183 1180	1297 1317	1317 1327	480 500	1360 1387	1383 1400	543 570
Ra 1329 Expt	247	7706 7734	5224 5225	1206 1207	1333 1333	1350 1353	433 477	1420 1423	1430 1440	543 570
Ra 1361 Expt	236	7270 7299	5226 5227	1200 1230	1293 1317	1313 1330	633 607	1327 1347	1363 1387	623 610
Ra 1362 Expt	238 241	7374 7427	5228 5229	1230 1217	1297 1313	1317 1330	567 470	1367 1363	1400 1400	583 500
Ra 1363 Expt	239	7300 7344	5230 5231	1227 1233	1320 1313	1330 1327	470 450	1380 1367	1400 1400	497 540
Ra 1364 Expt	233	7265 7296	5232 5233	1217 1227	1290 1263	1310 1283	500 517	1347 1307	1380 1340	517 540
Ra 1365 Expt		7187 7208	5234 5235	1227 1227	1267 1267	1287 1290	573 683	1323 1347	1357 1400	540 513
Ra 1366 Expt.	238 240	7242 7234	5236 5237	1230 1200	1257 1307	1277 1327	553 477			

				50	½	H	100	½	H
Ra 1367 Expt. 236	7302 7221	5238 5239	1190 1187	1307 1290	1320 1307	530 607			
Ra 1368 Expt 232	7205 7230	5240 5241	1167 1200	1260 1310	1283 1327	637 623			
Ra 1369 Expt 240	7354 7382	5242 5243	1253 1250	1360 1330	1373 1347	557 557	1367 1347	1377 1373	500 500
GeCd Clean 621 12½% Bi(OH)$_3$ 41f 4.27.3 21%K + 3Li after 3 cold runs change to 21K 2 Li	8040 8013	5244 5245	1417 1433	1750 1750	1773 1770	937 937	1777 1777	1843 1850	961 947
Dup 5244 21K 4 LiOH. after 3 Runs cold change to 21K2Li	8000 7963	5246 5247	1456 1457	1723 1760	1733 1770	930 1013	1777 1777	1820 1837	420 1027
Dup 5244 LiOH. after 21K 5 grms 3 cold change, Sol Li 21K2Li	7972 7940	5248 5249	1467 1480	1760 1767	1783 1783	933 947	1777 1777	1843 1843	947 1017
Dup 5244 21K 6 Li after 3 cold runs change to 21K2Li	X	5250 5251	1513 1493	1757 1733	1773 1763	1033 1047	1755 1733	1823 1857	1080 990
Dup 5244 21K 7 LiOH after 3 cold runs change to 21K2Li		5252 5253	1563 1527	1767 1750	1783 1767	1010 983	1733 1717	1810 1833	1083 1043
Dup 5244 21K 8 LiOH after 3 cold runs change to 21K2Li		5254 5255	1557 1557	1613 1757	1633 1783	1103 997	1723 1760	1817 1837	993 970

	150	½	H									
5244	1823	1880	730	1723 x slightly joint	1910	950	1623	1793	1003	1533	1730	1030
5245	1807	1883	960	1730 x	1923	970	1643	1787	983	1523	1717	1047
5246	1793	1847	1063	1730 x	1877	1090	1647	1780	997	1533	1717	1017
5247	1827	1870	950	1757	1907	1020	1687	1800	1017	1573	1683	1020
5248	1797	1867	1060	1720	1893	980	1683	1797	1000	1547	1720	1023
5249	1807	1867	950	1750	1910	983	1710	1817	987	1543	1717	1050
5250	1810	1883	973	1783	1910	1003	1727	1830	970	1633	1763	1037
5251	1787	1877	973	1720	1897	1003	1710	1810	947	1550	1720	1007
5252	1803	1893	980	1723	1903	983	1713	1820	990	1553	1727	1050
5253	1793	1880	987	1613	1867	987	1657	1787	950	1490	1723	987
5254	1830	1867	860	1680	1920	977	1653	1823	993	1500	1800	927
5255	1790	1857	967	1667	1873	963	1683	1780	953	1600	1750	967

400

5244	1557	1693	950	1363	1547	1080	1450	1613	1310
5245	1500	1633	1030	1293	1477	1093	1250	1420	957
5246	1567	1660	1030	1400	1570	920	1333	1493	1060
5247	1580	1690	1033	1360	1520	1057	1293	1410	1037
5248	1593	1703	1007	1400	1553	1067			
5249	1580	1684	1053	1360	1477	1100			
5250	1650	1727	1167	1440	1560	1077			
5251	1600	1710	1103	1340	1500	1103			
5252	1563	1660	1080	1400	1567	967			
5253	1580	1707	1163	1440	1623	908			
5254	1600	1717	1037	1447	1620	1053			
5255	1590	1700	1080	1443	1627	967			
5256	1620	1733	1037	1413	1560	1053			
5257	1553	1673	1163	1383	1563	967			

Dup 5244 21K Saturated LiOH. after 3 runs change to 21K 2 Li	5256 5257	1590 1597	1707 1733	1730 1773	1023 1030	1733 1667	1823 1860	993 923
Dup 5244. 21K + 3 Li - after 3 Runs cold Change to 21K 3 grams LiOH. 3 more run	5258 5259	1450 1450	1630 1577	1763 1703	990 1010	1580 1593	1690 1653	1113 1117
Dup 5244 21K 4 LiOH after 3 Cold runs change to 21K 3 LiOH.	5260 5261	1467 1477	1617 1617	1690 1753	1020 1000	1583 1533	1600 1600	1267 1227
Dup 5244 - 21K 5 LiOH, after 3 Cold runs, change to 21K 3 LiOH	5262 5263	1467 1467	1580 1567	1720 1680	983 977	1580 1580	1653 1650	1127 1150
Dup 5244 - 21K 6 LiOH after 3 Coldruns change to 21K 3 LiOH.	5264 5265	1480 1487	1567 1577	1653 1707	953 983	1590 1647	1767 1900	1117 927
Dup 5244 21K 7 Li after 3 Coldruns, change to 21K 3 LiOH.	5266 5267	1507 1507	1550 1553	1650 1677	990 987	1617 1617	1893 1883	1040 943
Dup 5244 21K 8 LiOH after 3 cold runs change to 21K 3 LiOH.	5268 5269	1497 1500	1567 1553	1657 1683	993 1023	1620 1627	1887 1767	893 917
Dup 5244 21K Saturated LiOH, run 3 cold then change to 21K 3 LiOH.	5270 5271	1483 1467	1450 1450 77 Runs 50 [illegible]	1467 1493	1083 1097			
4 1/8 hiber for Grinding - 2.78 2.82 003 Stock Straight Ream 2.89 21K 10% KChloride 2.84	5272 ~~5273~~		1750	1792				

	150	½	H									
5256	1797	1857	943	1667	1943	960	1723	1640	997	1610	1767	1000
5257	1797	1900	980	1580	1980	1017	1683	1783	1023	1513	1723	1000
5258	1733	1867	990	1593	1817	1083	1533	1673	1110			
5259	1600	1687	1227	1377	537	1057	1387	1590	1167			
5260	1687	1777	1110 × bent	1600	1757	1150	1367	1510	1133			
5261	1733	1867	1073	1600	1760 × [illegible]	1133	1390	1520	1097			
5262	1687	1843	1067	1613	1850	1097	1500	1670	1083			
5263	1700	1837	1073	1533	1720	1137	1390	1547	1053			
5264	1667	1823	1107	1520	1787	1107	1393	1583	1103			
5265	1700	1890	1050	1580 × [illegible] bent	1780	1143	1450	1637	1057			
5266	1533	1860	1100	1400	1700	1040	1250	1490	1107			
5267	1667	1833	1067	1513	1780	1070	1400	1597	1067			
5268	1600	1867	990	1533 × slight bent	1883	1067	1370	1583	1117			
5269	1600	1900	1083	1590	1883	1143	1367	1663	1060			

247

78 Rings ½ gone Hot

Dup 5273 - ~~6~~ 1/8 Tube Bursting test		5273		1867	1888	
1/2 turn Spiral — 21K 10% KCl — 1 turn		5274		1642	1692	
Dup 5273 Except 003 Stock 1½ turn spiral - 21K 10% KCl		5275		1583	1617	
Bursting 1850 2 turn		5276		1675	1721	
Dup 5272 003 Stock 2½ turn spiral - 21K 10% KCl		5277		1796	1833	
		5278		1683	1721	
005 Strand seam 005 ½ turn spiral		5279		1804	1833	
Dup 5272 005 1 turn spiral		5280		1733	1767	
Deep 5272 1½ turn spiral 005		5281		1767	1792	
Dup 5272 2 Turn spiral 005		5282	out	1696	1721	
Dup 5272 2½ turn Spiral 005		5283				
Lot 53 Ni flake		5284	1307	1310	1330	450
		5285	1293	1310	1327	450
1350 Reg	7801	5286	1177	1267	1283	473
	7876	5287	1180	1287	1300	497
1351 RA Reg	7785	5288	1167	1243	1273	500
	7848	5289	1167	1273	1287	537
1352 Reg	7787	5290	1200	1293	1307	523
	7808	5291	1243	1323	1340	557

5279 - best as its the highest capacity of 005 & Cock that shows no burst after 11 Hot runs —

1353 Reg	7732 7693	5292 5293	1233 1200	~~1300~~ ~~1287~~	~~1313~~ ~~1300~~	~~467~~ ~~467~~
Goldsden 622 248	8028 8010	5294 5295	1210 1200	~~1290~~ ~~1373~~	~~1310~~ ~~1350~~	~~440~~ ~~483~~
Goldsden 566 - sides 233	7413 7420	5296 5297	1227 1240	~~1290~~ ~~1333~~	~~1310~~ ~~1350~~	~~453~~ ~~503~~
Goldsden middle to 566 232	7333 7338	5298 5299	1243 1250	~~1297~~ ~~1247~~	~~1317~~ ~~1290~~	~~463~~ ~~457~~
Goldsden 601 - 194	6170 6126	5300 5301	1040 1043	~~963~~ ~~973~~	~~1060~~ ~~1000~~	~~413~~ ~~403~~
Goldsden Na_2SO_4 replaced by NaCl - 189	5955 6002	5302 5303	1000 1020	~~1000~~ ~~983~~	~~1023~~ ~~1000~~	~~333~~ ~~337~~
Goldsden 610 Na_2SO_4 replaced by ammon sulfate 187	5970 5987	5304 5305	800 800	~~953~~ ~~910~~	~~957~~ ~~917~~	~~343~~ ~~343~~
Goldsden 611 - Na_2SO_4 replaced by $BaCl_2$	6763 6773	5306 5307	1117 1117	~~1110~~ ~~1133~~	~~1120~~ ~~1160~~	~~387~~ ~~410~~

Ra 1370 Expt. 233	7 228 7 250	5308 5309	1150 1150	1260 1247	1280 1270	727 633	l
Ra 1371 Expt 238	7 241 7 208	5310 5311	1207 1210	1277 1267	1293 1287	520 467	0
Ra 1372 Expt 234	7 312 7 260	5312 5313	1213 1220	1303 1310	1320 1327	517 560	l
Ra 1373 Expt 236	7 193 7 259	5314 5315	1220 1260	1310 1343	1330 1363	547 610	ll
Ra 1374 Expt 237	7 245 7 252	5316 5317	1223 1213	1333 1313	1357 1333	723 713	l
Ra 1375 Expt 223	7 020 7 039	5318 5319	1207 1207	1320 1310	1340 1327	670 630	l
Ra 1376 Expt 230	7 171 7 223	5320 5321	1193 1230	1277 1213	1297 1330	630 703	l
1256 1 grm Alum to 6s put in each cell 21K 1 grm Copper Hydrox	7 319 7 340	5322 5323	1110 1093	400 440	477 493	150 190	ll
Dup 5322 21K 1 grm Antimonistek – 1 grm Al		5324 5325	1087 1100	167 233	323 410	133 160	0

Dup 5322 21K 1 gm Antimoniate Soda 1 al	5326 5327	1090 1073	40 50	200 207	93 113
Dup 5322 21K 1 gm Titanate K 1 al-	5328 5329	1080 993	283 237	417 353	170 173
Dup 5322- 21K 1 gm lead hydrox 1 al-	5330 5331	0 0	213 317	227 333	43 240
Dup 5322 21K 1 gm Zirconate Soda 1 Al	5332 5333	1050 1053	no Solution		
Dup 5322 21K 1 gm Ferric hydrox 1 Al	5334 5335	1040 1067	400 400	433 470	203 193
Dup 5322 21K 1 gm Acetone 1 Al	5336 5337	1083 1087	310 333	420 427	140 140
Dup 5322 21K 1 gm Chromate K 1 al	5338 5339	787 910	290 293	467 467	163 157
Dup 5322 21K 1 gm Chromate Soda 1 al	5340 5341	1067 1090	440 290	553 433	170 167
Dup 5322 21K 1 gm Molybdate Soda 1 al	5342 5343	1047 833	310 307	470 423	197 147

Dup 5322	5344	1087	353	427	157			
21K 1 gm Molybdate K 1 al.	5345	1020	343	417	190			
Dup 5322	5346	1093	0	100	50			
21K 1 gm Silicate Potash 1 al	5347	1117	0	33	53			
Dup 5322	5348	1123	400	527	143			
21K 1 gm Silicate Soda	5349	1083	467	573	193			
Dup 5322	5350	50	400	423	210			
21K 1 gm Sulphur 1 al.	5351	0	400	420	150			
Dup 5322	5352	1067	43	473	96			
21K 2 gm Cobalt$(OH)_2$ 1 al	5353	1080	50	347	93			
Gaddolin 621 12½% BiOH.	5354	1343	617	627	867	bismt 3 plam 3 Rengo		
21K saturated LiOH.	5355	1323	580	607	857	" 1 " 1 "		
Dup 5354	5356	1487	1667	1720	907	1617	1657	1133
21K Saturated LiOH after 3 runs put in 21K 2 Li	5357	1480	1677	1720	930	1657	1707	1273
Galdolin 621. 12% BiOH.	5358	1420	1393	1407	1223			
25% K + 5 gm LiOH. dump 4 8 grain then fill then Temp 7 424	5359	1447	1420	1443	1240			
Dup 5358	5360	1500	1323	1377	1257			
21K 6 LiOH. 7 464	5361	1463	1383	1407	1163			

5356	1600	1647	~~793~~	~~1550~~	~~1613~~	1610
5357	1633	1700	~~1067~~	~~1497~~	~~1573~~	1080

Dup 5358 21K 7 Li	5362 5363	1490 1473	1043 913	1060 950	1197 1050				Burst 1 place " 10 "
Dup 5358. 21K 8 LiO	5364 5365	1497 1490	640 620	660 640	867 867				Burst 7 places " 7 "
Dup 5358. 21K Saturated LiO	5366 5367	1493 1513	417 437	437 455	620 653				" 8 " 5 "
[illegible] 621 12½% BiOH. 21K 5 LiOH after 3 runs changed to 21K 2 Li – 48 grams Then 4 of them dup 7443	5368 5369	1413 1437	1690 1710	1733 1777	1073 1020	1690 1690	1753 1760	1270 1267	5 Over
Dup 5368 21K 6 Li after 3 runs put in 21K 2 Li	5370 5371	1467 1450	1690 1693	1750 1767	1027 1007	1707 1680	1770 1713	1117 1000	
Dup 5368 21K 7 Li after 3 runs change to 21K 2 Li	5372 5373	1477 1477	1643 1683	1677 1787	1067 1077	1707 1600	1763 1663	1267 1307	
Dup 5368 - 21K 8 LiO - after 3 runs change to 21K 2 Li	5374 5375	1447 1490	1693 1680	1840 1807	1000 1067	1667 1667	1727 1763	1307 1267	
Dup 5368 - 21K Saturated LiOH, after 3 runs change to 21K 2 Li	5376 5377	1483 1477	1680 1680	1827 1807	1010 930	1653 1640	1743 1743	1263 1263	
Dup 5322 – 21K 1 gm Titanate Soda 1 gm Aluminum	5378 5379	967 1043							

Run cold 42 Fahr [illegible]

5368	1420	1550				
5369	1463	1487				
5370	1707	1767	1653	1547	1683	1400
5371	1623	1703	1110	1497	1573	1103
5372	1653	1717	1077	1487	1557	1087
5373	1583	1627	1077	1467	1540	1133
5374	1580	1647	1117	1437	1520	1090
5375	1627	1733	1077	1350	1503	1090
5376	1600	1703	1063	1543	1653	1120
5377	1623	1703	1077	1610	1777	1067

Deep 5322 21 K 1 gm Zirconate K 1 Al-			5380 5381	1010 1023	~~100~~ ~~200~~	~~483~~ ~~490~~	~~153~~ ~~153~~
1354 Req		7 955 7 989	5382 5383	1163 1133	~~1320~~ ~~1317~~	~~1337~~ ~~1330~~	~~530~~ ~~523~~
1355 Req		7899 7849	5384 5385	1163 1123	~~1313~~ ~~1273~~	~~1330~~ ~~1287~~	~~597~~ ~~570~~
1357-Req		7 878 7 820	5386 5387	1127 1160	~~1247~~ ~~1333~~	~~1260~~ ~~1360~~	~~560~~ ~~620~~
1357 Req		7 780 7 717	5388 5389	1163 1127	~~1323~~ ~~1310~~	~~1337~~ ~~1323~~	~~613~~ ~~600~~
1358 Req	280	8018 7991	5390 5391	1120 1133	~~1303~~ ~~1317~~	~~1317~~ ~~1327~~	~~580~~ ~~567~~
1359 Req	277	7941 7957	5392 5393	1140 1143	~~1327~~ ~~1333~~	~~1337~~ ~~1360~~	~~623~~ ~~643~~
RA 1377 Expt - 232		7 200 7 169	5394 5395	1167 1167	~~1340~~ ~~1317~~	~~1767~~ ~~1340~~	~~637~~ ~~573~~
RA 1378 Expt, 231		7 271 7 263	5396 5397	1170 1163	~~1330~~ ~~1333~~	~~1353~~ ~~1357~~	~~573~~ ~~573~~

Ra 1379 Expt 233	7275 7258	5398 5399	1140 1157	~~1327~~ ~~1323~~	~~1347~~ ~~1337~~	~~563~~ ~~553~~			
Ra 1380- Expt 234	7296 7218	5400 5401	1193 1163	~~1333~~ ~~1327~~	~~1330~~ ~~1350~~	~~557~~ ~~550~~			
Ra 1381 Expt. 229	7162 7080	5402 5403	1127 1117	~~1333~~ ~~1277~~	~~1360~~ ~~1297~~	~~617~~ ~~647~~			
Ra 1382 Expt 233	7227 7265	5404 5405	1150 1153	~~1303~~ ~~1283~~	~~1323~~ ~~1310~~	~~727~~ ~~727~~			
Ra 1383 Expt 229	7124 7093	5406 5407	1130 1133	~~1333~~ ~~1323~~	~~1363~~ ~~1340~~	~~673~~ ~~660~~			
Ra 1384 230	7126 7102	5408 5409	1180 1160	~~1310~~ ~~1327~~	~~1323~~ ~~1337~~	~~470~~ ~~470~~			
Ra 1385 232	7090 7056	5410 5411	1213 1200	~~973~~ ~~1347~~	~~993~~ ~~1367~~	~~373~~ ~~510~~	~~1033~~ ~~1380~~	~~1050~~ ~~1393~~	~~510~~ ~~583~~
Ra 1391 (1164 sec) 254	7991 7994	5412 5413	1210 1210	~~1327~~ ~~1333~~	~~1340~~ ~~1347~~	~~410~~ ~~413~~			
Ra 1392 Expt -	7283 7200	5414 5415	1257 1260	~~1347~~ ~~1327~~	~~1370~~ ~~1337~~	~~460~~ ~~433~~	~~1393~~ ~~1380~~	~~1423~~ ~~1393~~	~~617~~ ~~577~~

Ra 1393 Expt 273	7147 7181	5416 5417	1247 1250	1373 1367	1393 1383	467 460	1410 1390	1440 1423	600 603
Gelatin 374 Dup of 4961-62 because the 2 tiles showed too much difference 248	7643 7548	5418 5419	1243 1240	1297 1333	1307 1353	440 467			
Gelatin 577 20% additional Na_2SO_4 dup of 499-20 255	7759 7776	5420 5421	1293 1283	1397 1380	1420 1393	417 450	1463 1417	1483 1443	563 550
1360 Req	7770 7897	5422 5423	1230 1200	1343 1310	1357 1327	487 467			
1364 Req	7847 7786	5424 5425	1133 1133	1260 1253	1273 1267	463 410			
1362 Req	7813 7937	5426 5427	1227 1210	1303 1300	1320 1313	413 443			
1363 Req	7783 7813	5428 5429	1200 1200	1257 1290	1267 1297	467 473			
1/8 tiles → 1804 1823 1857 1870 } 5430 1889 1890 1875 1888 Tamped 10% more weight		5430 5431	1200 1260	1333 1327	1360 1357	473 440	1260 1297	1313 1317	490 493
Dup 5430 Except 15% more wt 1997 1918 1961 1901 1888 1873 1987 1949		5432 5433	1323 1357	1393 1427	1420 1460	537 443	1330 1390	1397 1443	507 573

5420	1483	1513	700	1490	1527	663
5421	1447	1483	640	1467	1500	657
5430	1387	1460	517	1253	1377	470
5431	1437	1500	480	1293	1410	520
5432	1447	1533	487	1300	1417	543
5433	1460	1597	557	1320	1430	640

250 7/2 HT

1417	1507	683	1430	1547	777
1427	1490	673	1380	1507	717

1210	1337	713	1183	1313	713
1200	1343	810	1197	1320	810

	350	½	17			
5420	1427	1543	717	1260	1440	427
5421	1327	1500	717	1267	1440	683

Race 6

1450	—	—
1307	—	—

1365 – Req	274	7860 7836	5434 5435	
1366 – Req	274	7844 7816	5436 5437	
1367 Req	269	7765 7800	5438 5439	
1368 –	272	7861 7454	5440 5441	
Lot 54 flake – 243.4 – flake Light flake –		7321 7299	5442 5443	
Dup 4953-4 – because 2 Tubes observed beg dif –		7449 7760	5444 5445	
1369 Req	271	7667 7568	5446 5447	1163 1153
1370 Req	270	7635 7670	5448 5449	1143 1130
1371 Req	267	7691 7646	5450 5451	1187 1183

1253 1307	1267 1320	447 490	|				
1303 1173	1323 1187	517 517	|				
1267 1257	1297 1267	523 507	|				
1317 1320	1323 1327	450 460	|				
1267 1320	1297 1330	540 460	||				
1303 1117	1327 1147	477 450		1327 1160	1357 ~~1240~~	473 ~~563~~	0
1250 1257	1257 1263	433 453	||				
1223 1187	1233 1197	437 433	|				
1217 1240	1227 1250	440 473	|				

1372 Reg	262	7521 7525	5452 5453	1157 1177	~~1210~~ ~~1203~~	~~1223~~ ~~1217~~	~~450~~ ~~470~~	0			
1373 Reg	264	7421 7416	5454 5455	1160 1170	~~1207~~ ~~1247~~	~~1217~~ ~~1280~~	~~553~~ ~~583~~	1			
1374 Reg	260	7434 7415	5456 5457	1147 1173	~~1217~~ ~~1227~~	~~1233~~ ~~1240~~	~~580~~ ~~580~~	0			
Goldstein 608 - 12½% Bi - 25% $Cd(OH)_2$		7720 7623	5458 5459	1210 —	~~1450~~ ~~1400~~	~~1513~~ ~~1417~~	~~923~~ ~~997~~	~~1413~~ ~~1500~~	~~1467~~ ~~1533~~	~~1090~~ ~~980~~	0
green flake from cells 1690 to 1695 after running 600 times not removed treated KOH & glycerin floated off flake & treated it 2% H_2SO_4 1 green washed free of glycerine & momentary washed 2% H_2SO_4 27 - flake .0083	215 D	7595 7537	5460 5461	1513 1507	~~1487~~ ~~1480~~	~~1523~~ ~~1527~~	~~967~~ ~~990~~	~~1350~~ ~~1357~~	~~1460~~ ~~1513~~	~~983~~ ~~1027~~	
1375 Reg	273	7695 7676	5462 5463	1187 1200	~~1290~~ ~~1280~~	~~1307~~ ~~1300~~	~~437~~ ~~467~~	1			
1376 Reg	275	7661 7683	5464 5465	1183 1200	~~1247~~ ~~1317~~	~~1257~~ ~~1330~~	~~477~~ ~~440~~	1			
1377	269	7692 7670	5466 5467	1233 1213	[illegible] ~~1323~~	~~1357~~ ~~1333~~	~~373~~ ~~347~~	1			
~~Rg~~ 1378	277	7853 7737	5468 5469	1207 1177	~~1330~~ ~~1290~~	~~1340~~ ~~1307~~	~~317~~ ~~343~~	0			

Note high hot
& no Bi

150 1/2 ct.

5460	1320	1433	977	1167	1250	850	1267	1367	863	937	1020	847
5461	1320	1440	1003	1173	1267	853	1297	1390	860	1073	1183	890

1379 Reg	274	7574 7692	5470 5471	1150 1150	1257 1253	1280 1277	323 373			
1380 Reg	267	7764 7756	5472 5473	1173 1200	1287 1257	1300 1270	397 373			
1/8 Tubes long made by Smith. His machine			5474 5475	2146 2100	2213 2133	2242 2150	580 550	2246 2167	2333 2246	954 821
Long 1/8 tubes 4 in grid made by Smith — Dup of 5474 Long tubes			5476 5477	2125 2158	2196 2217	2229 2246	570 630	2321 2300	2382 2358	854 876
1381 - Reg		7646 7640	5478 5479	1133 1133	1260 1253	1267 1263	410 420			
1382 Reg		7730 7670	5480 5481	1000 1117	1237 1260	1253 1267	280 267			
1383 Reg		7756 7736	5482 5483	1137 1143	1257 1240	1267 1253	417 313			
1384 Reg		7714 7809	5484 5485	1140 1210	1113 1327	1123 1343	313 313			
Reg green 21K 8 grains K Chloride Run 6 times change to 21K.2 ~~after~~ & soak all night then change again to 21K2 L1 of Run		7198 7194	5486 5487	[illegible] [illegible]						

	150	½	H	200	½	H
5474	2233	2375	763	2046	2250	763
5475	2183	2313	708	2021	2240	713
5476	2313	2438	692	2171	2375	723
5477	2271	2425	746	2068	2308	710

240 ~~½ H~~

			300	½	H
1808	2008	946	1713	1946	1065
1821	2017	863	1717	1954	1030
1921	2129	858	1896	2100	1025
1838	2025	808	1813	1992	1040

	350	½	H	400	½	H
5474	1633	1879	1017	1679	1871	1158
5475	1646	1871	1021	1604	1804	1063
5476	1821	1979	996	1775	1950	975
5477	1742	1908	1013	1758	1950	754

500		
1275	1408	810
1358	1497	827
1488	1708	913
1404	1550	940

burst 1 place

burst 1 place

2 place

Dup 5486 Except 21K 6 KCP-		5488 5489	[illegible] [illegible]				
Dup 5486 Except 21K 4 Kchloride		5490 5491	[illegible] [illegible]				
1385 Reg	7851 7827	5492 5493	1173 1167	~~1300~~ ~~1237~~	~~1313~~ ~~1250~~	~~403~~ ~~400~~	0
1386 Reg	7917 7867	5494 5495	1117 1173	~~1273~~ ~~1263~~	~~1283~~ ~~1280~~	~~437~~ ~~430~~	
1387 Reg	7772 7797	5496 5497	1170 1193	~~1230~~ ~~1283~~	~~1247~~ ~~1297~~	~~400~~ ~~473~~	0
1388 Reg	7920 7888	5498 5499	1227 1223	~~1283~~ ~~1287~~	~~1290~~ ~~1297~~	~~430~~ ~~473~~	
1389	7885 7989	5500 5501	1207 1190	~~1313~~ ~~1263~~	~~1327~~ ~~1280~~	~~500~~ ~~503~~	0
1390	7893 7871	5502 5503	1193 1279	~~1250~~ ~~1313~~	~~1257~~ ~~1327~~	~~547~~ ~~627~~	0
1391	7835 7894	5504 5505	1197 1187	~~1257~~ ~~1250~~	~~1280~~ ~~1263~~	~~593~~ ~~600~~	0

1392 Reg	7821 7773	5506 5507	1210 1207	~~1240~~ ~~1263~~	~~1253~~ ~~1277~~	~~547~~ ~~660~~				
1393 Reg	7722 7720	5508 5509	1203 1197	~~1247~~ ~~1250~~	~~1255~~ ~~1263~~	~~530~~ ~~563~~				
1394 Reg	7790 7775	5510 5511	1180 1177	~~1233~~ ~~1220~~	~~1247~~ ~~1233~~	~~604~~ ~~547~~				
1395 Reg	7790 7779	5512 5513	1153 1177	~~1243~~ ~~1243~~	~~1250~~ ~~1250~~	~~693~~ ~~637~~				
Lot 55 flake 23.7 4.1	7566 7502	5514 5515	1250 1260	~~1327~~ ~~1333~~	~~1347~~ ~~1350~~	~~657~~ ~~647~~				
Ni(OH)2 from dry cryst NiSO4 + dry NaOH made in pug mill — fine powder — pressed at 300 [illegible] & crushed thru 30 on 190 1/8 thickness discs Chilean Mill full [illegible] [illegible]	7 221 7 212 7.171	5516 5517 5518	1007 993 997	~~1160~~ ~~1163~~ ~~1163~~	~~1180~~ ~~1180~~ ~~1177~~	~~457~~ ~~457~~ ~~397~~	~~1267~~ ~~1250~~ ~~1253~~	~~1277~~ ~~1257~~ ~~1260~~	~~393~~ ~~433~~ ~~433~~	
1396 Reg	7688 9773	5519 5520	1177 1163	~~1230~~ ~~1243~~	~~1243~~ ~~1250~~	~~543~~ ~~590~~				

											250	1/2	17
5516	1370	1400	480	1307	1340	533		1347	1373	X	1200	1300	547
5517	1370	1400	583	1317	1357	560		1360	1390		1220	1310	570
5518	1333	1370	480	1317	1317	547		1313	1333		1203	1293	567

	300		350 6 Runs			400			450		
5516	1257	1323	1253	1333	690	1117	1247	640	1127	1250	837
5517	1283	1350	1280	1380	690	1237	1333	660	1273	1390	840
5518	1267	1327	1257	1363	600	1170	1307	657	1230	1370	837

500								
1090	1190	713	1023	1133	667	943	1060	630
1120	1250	767	1040	1230	633	977	1097	623
1077	1237	680	1013	1190	640	955	1083	627

1397 Reg	7799 7778	5521 5522	1173 1150	1260 1243	1273 1250	573 607			
1398 Reg	7803 7802	5523 5524	1177 1177	1263 1313	1277 1327	573 633			
1399 Reg	7821 7838	5525 5526	1200 1187	1267 1280	1283 1290	550 527			
$Ni(OH)_2$ from $NiSO_4$ Cryst dry + dry NaOH. worked in mill — very fine powder — pressed 300 at, no iron, washed decantation —	7313 7249 7267	5527 5528 5529	1033 1050 1050	1293 1300 1300	1330 1313 1317	393 360 347	1400 1400 1387	1407 1417 1407	497 423 440
$Ni(OH)_2$ from $NiSO_4 \cdot 7H_2O$ + crystals Bi nitrate + dry NaOH, pressed in mill, washed decantation, no iron	7111 7100 7126	5530 5531 5532	1097 1120 1103	1400 1420 1417	1427 1437 1430	933 1033 957	1583 1583 1583	1643 1633 1650	1017 1000 940
NiOH made fr dry Cryst $NiSO_4$ + dry NaOH in small rolls pressed 300 atmos — dried after rolls — washed decantation	7314 7297 7359	5533 5534 5535	967 957 983	1257 1266 1257	1267 1267 1267	363 360 360	1317 1333 1333	1333 1407 1407	387 390 370
1400 Reg	7845 7844	5536 5537	1200 1223	1293 1287	1307 1300	500 507			
1401 Reg	7880 7901	5538 5539	1197 1200	1297 1266	1307 1277	543 543			

5527	1527	1550	583	1427	1483	570	1473	1507	X	1333	1417	607
5528	1517	1530	560	1397	1473	557	1447	1497		1320	1417	603
5529	1520	1550	603	1433	1493	592	1480	1510		1357	1433	643
5530	1600	1723	1033	1317	1650	1103	1577	1637	X	1423	1557	1137
5531	1597	1740	910	1533	1697	1060	1627	1690		1517	1640	1017
5532	1600	1733	1007	1437	1690	1050	1613	1683		1467	1620	1047
5533	1433	1467	477	1313	1377	503	1360	1417		1250	1340	580
5534	1433	1467	450	1320	1387	483	1373	1383		1263	1367	560
5535	1427	1443	447	1317	1377	493	1360	1390		1213	1303	503

500								
1230	1413	770	1170	1443	677	993	1197	620
1110	1387	767	1020	1340	677	950	1130	620
1153	1390	713	1110	1303	669	960	1183	677

	300	1/2	ff	350	1/2	H	400	1/2	H	450	1/2	H
				6Rm								
5527	1347	1450	1110	1338	1443	783	1283	1433	753	1347	1480	900
5528	1260	1423	593	1289	1410	687	1177	1410	663	1267	1447	900
5529	1300	1433	750	1300	1417	687	1240	1393	667	1267	1443	900
[illegible]												
5533	1190	1330	557	1190	1340	620	1143	1353	697	1107	1333	833
5534	1250	1367	500	1233	1347	613	1123	1300	613	1067	1260	833
5535	1240	1347	560	1177	1287	587	1093	1277	627	1050	1237	837
	500											
	1030	1197	710	990	1223	713		917	1070	636		
	1067	1097	673	943	1193	657		933	1093	627		
	1023	1183	643	990	1183	637		927	1077	584		

~~1400 Req~~	~~7880~~ ~~7901~~	5540 5541	1200 1193			
1402, Req	7855 7825	5540 5541	1190 1220	1297 1297	1307 1307	503 570
1403 Req	7791 7768	5542 5543	1207 1193	1283 1267	1300 1290	440 547
1404 Req	7765 7757	5544 5545	1207 1207	1260 1280	1277 1300	450 450
1405 Req	7785 7794	5546 5547	1177 1180	1283 1253	1300 1267	537 600
1406 Req	7744 7781	5548 5549	1147 1163	1257 1257	1267 1267	573 650
1407 Req	7828 7782	5550 5551	1223 1240	1220 1233	1233 1253	633 600
1408 Req	7739 7758	5552 5553	1190 1200	1283 1340	1300 1353	537 533
1409 Req	7812 7805	5554 5555	1187 1173	1280 1330	1300 1340	420 497